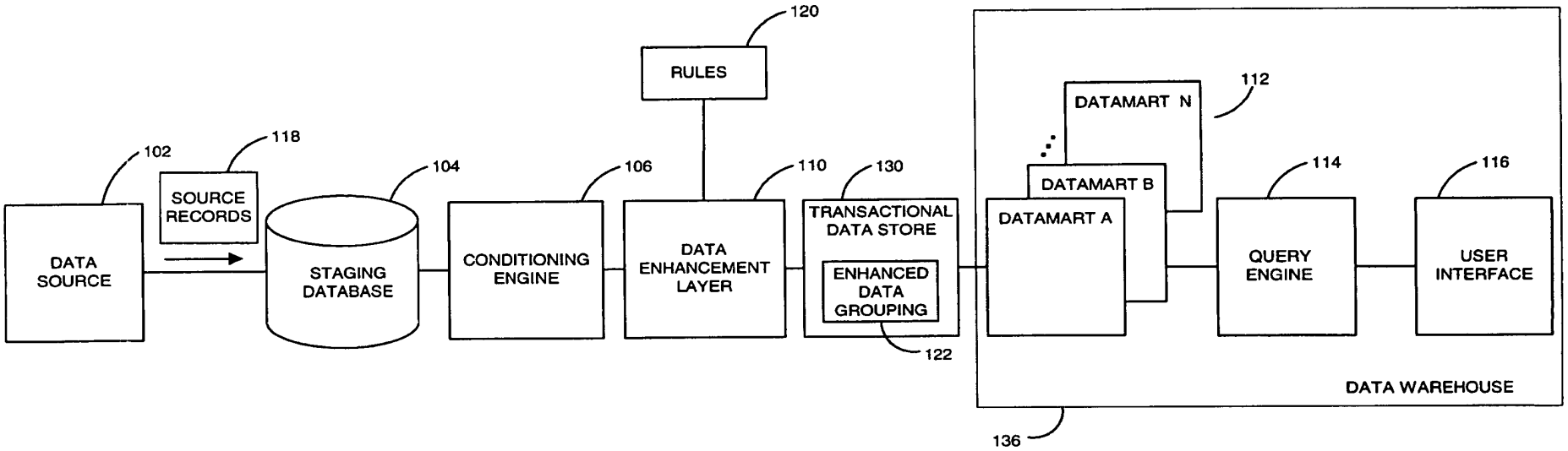
120
RULES
112
DATAMART N
102
118
104
106
110
130
114
116
SOURCE RECORDS
DATAMART B
DATA SOURCE
STAGING DATABASE
CONDITIONING ENGINE
DATA ENHANCEMENT LAYER
TRANSACTIONAL DATA STORE
DATAMART A
QUERY ENGINE
USER INTERFACE
ENHANCED DATA GROUPING
122
DATA WAREHOUSE
136

FIG. 1

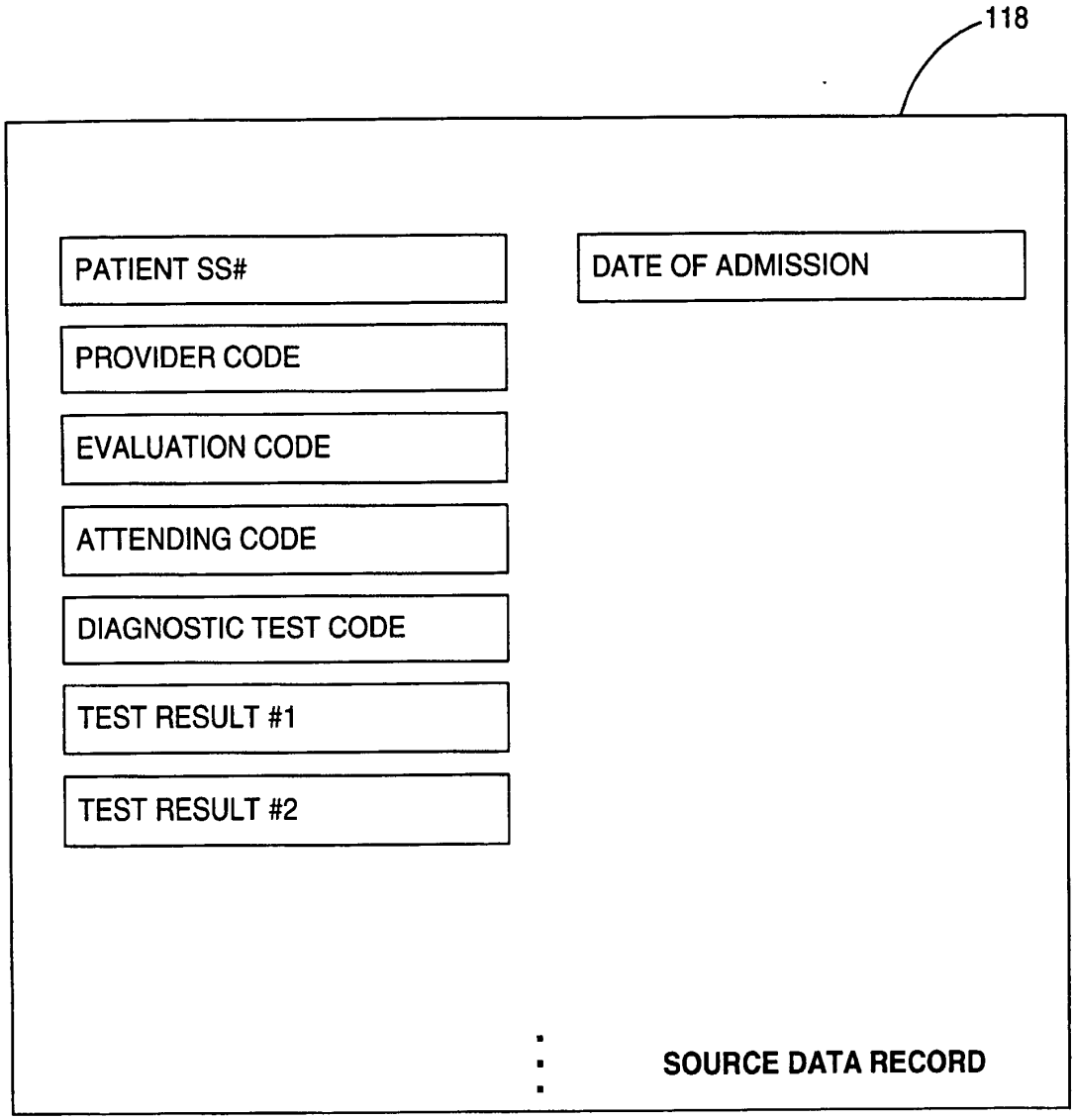
118
PATIENT SS#
DATE OF ADMISSION
PROVIDER CODE
EVALUATION CODE
ATTENDING CODE
DIAGNOSTIC TEST CODE
TEST RESULT #1
TEST RESULT #2
SOURCE DATA RECORD

FIG. 2

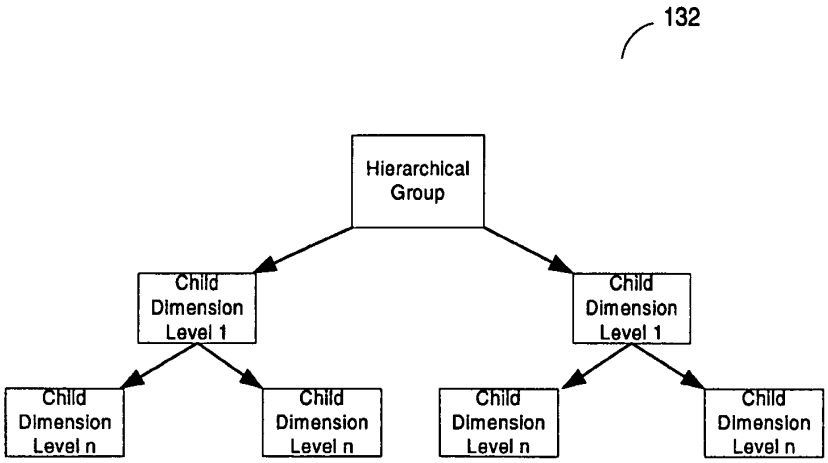
132
Hierarchical Group
Child Dimension Level 1
Child Dimension Level 1
Child Dimension Level n
Child Dimension Level n
Child Dimension Level n
Child Dimension Level n

FIG. 3

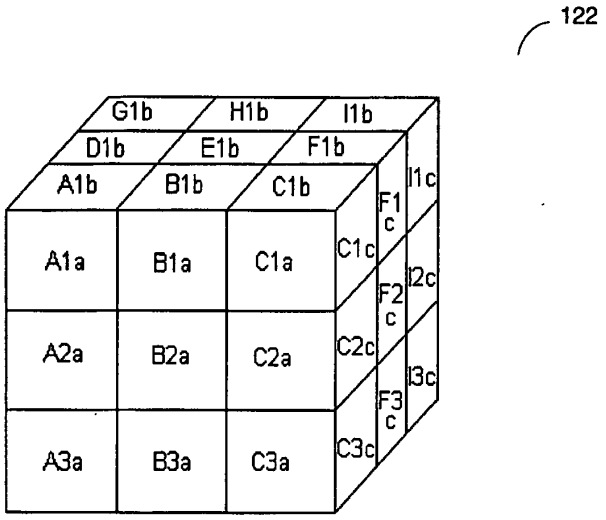
122
G1b
H1b
I1b
D1b
E1b
F1b
A1b
B1b
C1b
F1c
I1c
A1a
B1a
C1a
C1c
F2c
I2c
A2a
B2a
C2a
C2c
F3c
I3c
A3a
B3a
C3a
C3c

FIG. 4

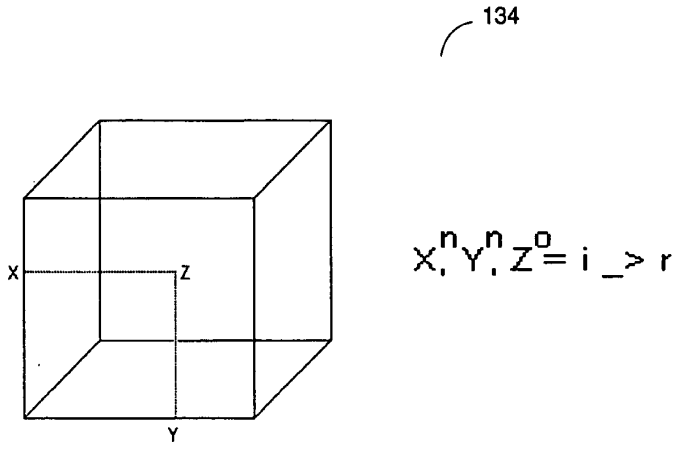


FIG. 5

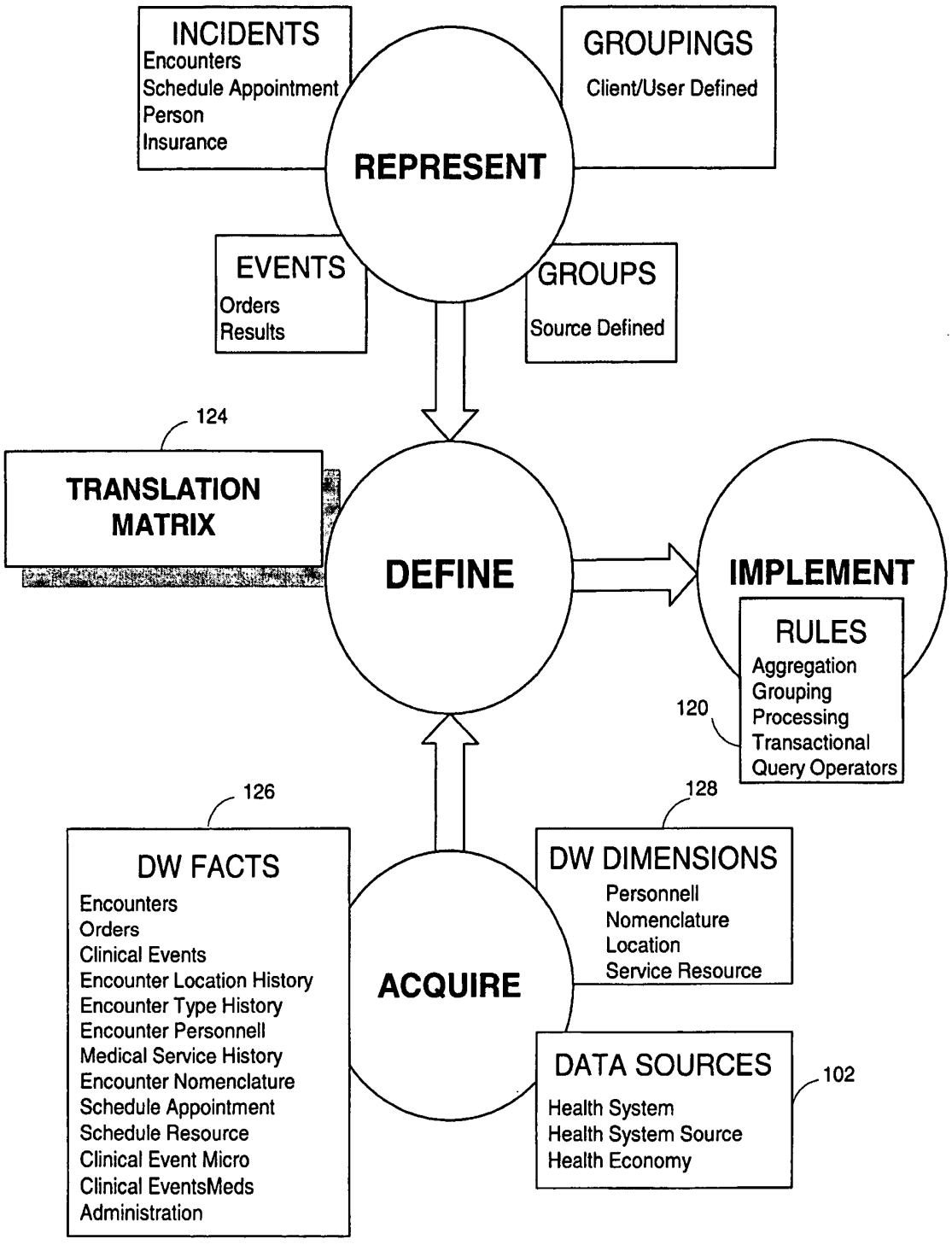
PHYSICAL STRUCTURES
INCIDENTS
Encounters
Schedule Appointment
Person
Insurance
GROUPINGS
Client/User Defined
REPRESENT
EVENTS
Orders
Results
GROUPS
Source Defined
124
TRANSLATION MATRIX
DEFINE
IMPLEMENT
RULES
Aggregation
Grouping
Processing
Transactional
Query Operators
120
126
DW FACTS
Encounters
Orders
Clinical Events
Encounter Location History
Encounter Type History
Encounter Personnell
Medical Service History
Encounter Nomenclature
Schedule Appointment
Schedule Resource
Clinical Event Micro
Clinical EventsMeds
Administration
ACQUIRE
128
DW DIMENSIONS
Personnell
Nomenclature
Location
Service Resource
DATA SOURCES
Health System
Health System Source
Health Economy
102

FIG. 6

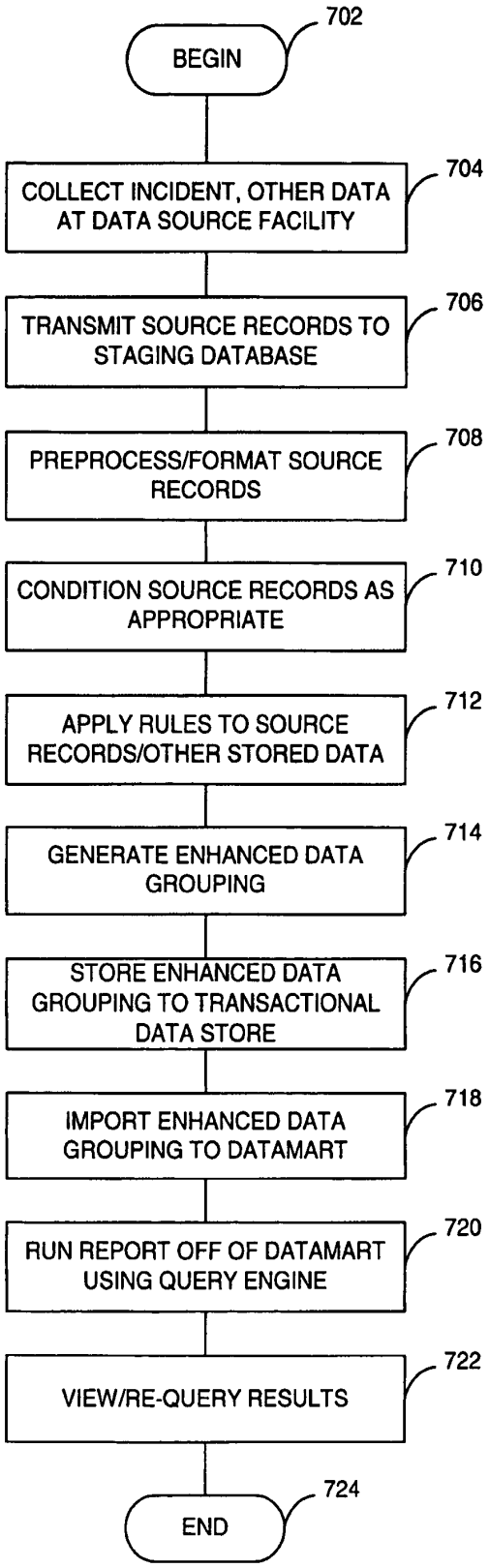
BEGIN
702
COLLECT INCIDENT, OTHER DATA AT DATA SOURCE FACILITY
704
TRANSMIT SOURCE RECORDS TO STAGING DATABASE
706
PREPROCESS/FORMAT SOURCE RECORDS
708
CONDITION SOURCE RECORDS AS APPROPRIATE
710
APPLY RULES TO SOURCE RECORDS/OTHER STORED DATA
712
GENERATE ENHANCED DATA GROUPING
714
STORE ENHANCED DATA GROUPING TO TRANSACTIONAL DATA STORE
716
IMPORT ENHANCED DATA GROUPING TO DATAMART
718
RUN REPORT OFF OF DATAMART USING QUERY ENGINE
720
VIEW/RE-QUERY RESULTS
722
END
724

FIG. 7